



1.0 Scope

This specification describes the electrical, chemical and mechanical characteristics of CORSTAT™ ANSI/ESD-S541 and ANSI/ESD S20.20 compliant.

2.0 Electrical

- 2.1 Surface Resistance
(per ANSI/ESD STM11.11)
 - 2.1.1 Buried Shielding-layer Ohms 10³ - 10⁴ ohms
 - 2.1.2 Outer Dissipative-layer Ohms 10⁴ - 10⁶ ohms
- 2.2 Electrostatic Decay Rate
(Per EIA-541) Avg. 0.01 sec.
- 2.3 ESD Shielding - Capacitive Probe Test Avg. 16.94nJ
- 2.4 Triboelectric Charge Generation - low

3.0 Chemical

- 3.1 Corrosivity
 - 3.1.1 Reducible Sulphur .00035%
(.0008% nontarnishing to silver, solder and copper per TAPPI-406)
 - 3.1.2 Amines None
 - 3.1.3 Galvanic Reaction None

4.0 Mechanical

- 4.1 Kraft Paper Stock Base Fiberboard
- 4.2 Rub Resistance, Shielding Layer Excellent
(Per Sutherland Ink Rub Test)
- 4.3 Shelf Life 10 Years
- 4.4 Cracking Corstat® will not lose continuity above 10⁵ ohms/sq. when flexed at score line 10 times in a 180° motion.
- 4.5 Printability Excellent
- 4.6 Humidity Dependence No effect on electrical properties
- 4.7 Identification
 - 4.7.1 ESD Shielding Indication
 - 4.7.2 Date of Manufacturing
 - 4.7.3 Recyclable



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ANTI-STATIC POLYURETHANE 4300 SERIES

1.0 Scope

This specification describes the electrical, physical and mechanical characteristics of Anti-Static Polyurethane 4300 Series Foam.

2.0 Electrical

----- 2.1 Static Decay	
----- (FFMS 101C) Method 4046	2 Sec. Max
----- 2.2 Surface Resistivity	
----- (ASTM D-257)	10 ¹¹ ohms/sq.

3.0 Mechanical

----- 3.1 Compression Set @50% comp:	
----- (ASTM D-3574-86)	10% max.
----- 3.2 Tensile Strength	
----- (ASTM D-3574-86)	12 psi. minimum
----- 3.3 Elongation	
----- (ASTM-D3574-86)	160% minimum
----- 3.4 Density	
----- (ASTM D-3574-86)	1.25 +/- 1 lbs./cu.ft

4.0 Physical

----- 4.1 Color	Pink
----- 4.2 Flammability (CAL.117)	not rated pass/not rated
----- (MVSS 302)	not rated pass/not rated
----- 4.3 Tear Resistance	
----- (ASTM D-3574-86)	2 lbs./lin.inch minimum
----- 4.4 Indent Force Deflection @ 25% Deflection:	
----- (ASTM D-3574-86)	35 +/- 3 lbs./50 sq. in.
----- 4.5 CFC FREE	

The specification values listed above are for general guidance only. Each user must independently determine the suitability of CCI foam for its intended use.

WARNING: URETHANE FOAM IS FLAMMABLE!
urethane Foam should not be exposed to open flame or other ignition sources.
urethanes burn rapidly with great heat and release gases which are extremely hazardous.



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LD32CN Conductive Crosslink Foam

PROPERTY	TEST METHOD	UNITS	LD32CN
Density:	ASTM D3575-91 Suffix: W (Method A)	pcf	2.0
Volume Resistance:	ASTM D991-89	ohms.cms	5x10 ³
Corrosivity:	TS10218 (UK MOD) Conductive Sh.Spec.	Contact Vapor	PASS PASS
Total Chlorine:			
Compressive Strength:	ASTM D3575-91 Suffix: D	psi	
@ 10%			9
@ 25%			11
@40%			15
@50%			20
Compression Set:	ASTM D3575-91 Suffix: B		
22 hrs@50% 73° F. 2 hr recovery		% set	17
22 hrs@50% 73° F. 2 hr recovery		% set	14
Tensile Strength:	ASTM D3575-91 Suffix: G (Cell/Cell)	%	54
Elongation at Break:		%	55
Tear Resistance:	ASTM D3575-91 Suffix: G (Cell/Cell)	lb./in	10
Recommended Operating Temperature Range*	Internal	deg..F min. deg. F max	-95 +200

*Surface resistance, ohms, max by ASTM method D257-66 entitled "D-C Resistance or Conductance of Insulating Material"
The specification values listed above are for general guidance only. Each user must independently determine the suitability of CCI sheet for its intended use.



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